

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/565,058  
Source: TEWP  
Date Processed by STIC: 1-24-06

# *ENTERED*



IFW P

RAW SEQUENCE LISTING DATE: 01/24/2006  
 PATENT APPLICATION: US/10/565,058 TIME: 11:00:30

Input Set : A:\002.00270 Sequence Listing.txt  
 Output Set: N:\CRF4\01052006\J565058.raw

3 <110> APPLICANT: Hardie, David Grahame  
 4 Alessi, Dario  
 5 Boudeau, Jerome  
 7 <120> TITLE OF INVENTION: Methods For Use Of An LKB1/Strad7M025 Complex  
 9 <130> FILE REFERENCE: 002.00270  
 -> 11 <140> CURRENT APPLICATION NUMBER: US/10/565,058  
 -> 11 <141> CURRENT FILING DATE: 2006-01-17  
 11 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/003096  
 12 <151> PRIOR FILING DATE: 2004-07-16  
 14 <150> PRIOR APPLICATION NUMBER: GB 0316725.1  
 15 <151> PRIOR FILING DATE: 2003-07-17  
 17 <150> PRIOR APPLICATION NUMBER: GB 0330078.7  
 18 <151> PRIOR FILING DATE: 2003-12-20  
 20 <160> NUMBER OF SEQ ID NOS: 158  
 22 <170> SOFTWARE: PatentIn version 3.1  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 550  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Homo sapiens  
 29 <400> SEQUENCE: 1  
 31 Met Ala Thr Ala Glu Lys Gln Lys His Asp Gly Arg Val Lys Ile Gly  
 32 1 5 10 15  
 35 His Tyr Ile Leu Gly Asp Thr Leu Gly Val Gly Thr Phe Gly Lys Val  
 36 20 25 30  
 39 Lys Val Gly Lys His Glu Leu Thr Gly His Lys Val Ala Val Lys Ile  
 40 35 40 45  
 43 Leu Asn Arg Gln Lys Ile Arg Ser Leu Asp Val Val Gly Lys Ile Arg  
 44 50 55 60  
 47 Arg Glu Ile Gln Asn Leu Lys Leu Phe Arg His Pro His Ile Ile Lys  
 48 65 70 75 80  
 51 Leu Tyr Gln Val Ile Ser Thr Pro Ser Asp Ile Phe Met Val Met Glu  
 52 85 90 95  
 55 Tyr Val Ser Gly Gly Glu Leu Phe Asp Tyr Ile Cys Lys Asn Gly Arg  
 56 100 105 110  
 59 Leu Asp Glu Lys Glu Ser Arg Arg Leu Phe Gln Gln Ile Leu Ser Gly  
 60 115 120 125  
 63 Val Asp Tyr Cys His Arg His Met Val Val His Arg Asp Leu Lys Pro  
 64 130 135 140  
 67 Glu Asn Val Leu Leu Asp Ala His Met Asn Ala Lys Ile Ala Asp Phe  
 68 145 150 155 160  
 71 Gly Leu Ser Asn Met Met Ser Asp Gly Glu Phe Leu Arg Thr Ser Cys  
 72 165 170 175  
 75 Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Arg Leu Tyr

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76	180	185	190													
79	Ala	Gly	Pro	Glu	Val	Asp	Ile	Trp	Ser	Ser	Gly	Val	Ile	Leu	Tyr	Ala
80	195			200									205			
83	Leu	Leu	Cys	Gly	Thr	Leu	Pro	Phe	Asp	Asp	Asp	His	Val	Pro	Thr	Leu
84	210			215									220			
87	Phe	Lys	Lys	Ile	Cys	Asp	Gly	Ile	Phe	Tyr	Thr	Pro	Gln	Tyr	Leu	Asn
88	225			230								235				240
91	Pro	Ser	Val	Ile	Ser	Leu	Leu	Lys	His	Met	Leu	Gln	Val	Asp	Pro	Met
92				245						250					255	
95	Lys	Arg	Ala	Thr	Ile	Lys	Asp	Ile	Arg	Glu	His	Glu	Trp	Phe	Lys	Gln
96				260						265					270	
99	Asp	Leu	Pro	Lys	Tyr	Leu	Phe	Pro	Glu	Asp	Pro	Ser	Tyr	Ser	Ser	Thr
100				275				280							285	
103	Met	Ile	Asp	Asp	Glu	Ala	Leu	Lys	Glu	Val	Cys	Glu	Lys	Phe	Glu	Cys
104				290				295							300	
107	Ser	Glu	Glu	Glu	Val	Leu	Ser	Cys	Leu	Tyr	Asn	Arg	Asn	His	Gln	Asp
108	305				310						315					320
111	Pro	Leu	Ala	Val	Ala	Tyr	His	Leu	Ile	Ile	Asp	Asn	Arg	Arg	Ile	Met
112					325						330					335
115	Asn	Glu	Ala	Lys	Asp	Phe	Tyr	Leu	Ala	Thr	Ser	Pro	Pro	Asp	Ser	Phe
116					340					345					350	
119	Leu	Asp	Asp	His	His	Leu	Thr	Arg	Pro	His	Pro	Glu	Arg	Val	Pro	Phe
120					355				360						365	
123	Leu	Val	Ala	Glu	Thr	Pro	Arg	Ala	Arg	His	Thr	Leu	Asp	Glu	Leu	Asn
124					370				375						380	
127	Pro	Gln	Lys	Ser	Lys	His	Gln	Gly	Val	Arg	Lys	Ala	Lys	Trp	His	Leu
128	385					390				395						400
131	Gly	Ile	Arg	Ser	Gln	Ser	Arg	Pro	Asn	Asp	Ile	Met	Ala	Glu	Val	Cys
132						405				410						415
135	Arg	Ala	Ile	Lys	Gln	Leu	Asp	Tyr	Glu	Trp	Lys	Val	Val	Asn	Pro	Tyr
136						420			425							430
139	Tyr	Leu	Arg	Val	Arg	Arg	Lys	Asn	Pro	Val	Thr	Ser	Thr	Tyr	Ser	Lys
140						435			440							445
143	Met	Ser	Leu	Gln	Leu	Tyr	Gln	Val	Asp	Ser	Arg	Thr	Tyr	Leu	Leu	Asp
144						450			455							460
147	Phe	Arg	Ser	Ile	Asp	Asp	Glu	Ile	Thr	Glu	Ala	Lys	Ser	Gly	Thr	Ala
148	465					470				475						480
151	Thr	Pro	Gln	Arg	Ser	Gly	Ser	Val	Ser	Asn	Tyr	Arg	Ser	Cys	Gln	Arg
152						485				490						495
155	Ser	Asp	Ser	Asp	Ala	Glu	Ala	Gln	Gly	Lys	Ser	Ser	Glu	Val	Ser	Leu
156						500				505						510
159	Thr	Ser	Ser	Val	Thr	Ser	Leu	Asp	Ser	Ser	Pro	Val	Asp	Leu	Thr	Pro
160						515			520							525
163	Arg	Pro	Gly	Ser	His	Thr	Ile	Glu	Phe	Phe	Glu	Met	Cys	Ala	Asn	Leu
164						530			535							540
167	Ile	Lys	Ile	Leu	Ala	Gln										
168	545					550										
171	<210>	SEQ	ID	NO:	2											
172	<211>	LENGTH:	550													

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Input Set : A:\002.00270 Sequence Listing.txt

Output Set: N:\CRF4\01052006\J565058.raw

173 <212> TYPE: PRT  
 174 <213> ORGANISM: Homo sapiens  
 176 <400> SEQUENCE: 2  
 178 Met Ala Thr Ala Glu Lys Gln Lys His Asp Gly Arg Val Lys Ile Gly  
 179 1 5 10 15  
 182 His Tyr Ile Leu Gly Asp Thr Leu Gly Val Gly Thr Phe Gly Lys Val  
 183 20 25 30  
 186 Lys Val Gly Lys His Glu Leu Thr Gly His Lys Val Ala Val Lys Ile  
 187 35 40 45  
 190 Leu Asn Arg Gln Lys Ile Arg Ser Leu Asp Val Val Gly Lys Ile Arg  
 191 50 55 60  
 194 Arg Glu Ile Gln Asn Leu Lys Leu Phe Arg His Pro His Ile Ile Lys  
 195 65 70 75 80  
 198 Leu Tyr Gln Val Ile Ser Thr Pro Ser Asp Ile Phe Met Val Met Glu  
 199 85 90 95  
 202 Tyr Val Ser Gly Gly Glu Leu Phe Asp Tyr Ile Cys Lys Asn Gly Arg  
 203 100 105 110  
 206 Leu Asp Glu Lys Glu Ser Arg Arg Leu Phe Gln Gln Ile Leu Ser Gly  
 207 115 120 125  
 210 Val Asp Tyr Cys His Arg His Met Val Val His Arg Asp Leu Lys Pro  
 211 130 135 140  
 214 Glu Asn Val Leu Leu Asp Ala His Met Asn Ala Lys Ile Ala Asp Phe  
 215 145 150 155 160  
 218 Gly Leu Ser Asn Met Met Ser Asp Gly Glu Phe Leu Arg Thr Ser Cys  
 219 165 170 175  
 222 Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Arg Leu Tyr  
 223 180 185 190  
 226 Ala Gly Pro Glu Val Asp Ile Trp Ser Ser Gly Val Ile Leu Tyr Ala  
 227 195 200 205  
 230 Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp His Val Pro Thr Leu  
 231 210 215 220  
 234 Phe Lys Lys Ile Cys Asp Gly Ile Phe Tyr Thr Pro Gln Tyr Leu Asn  
 235 225 230 235 240  
 238 Pro Ser Val Ile Ser Leu Leu Lys His Met Leu Gln Val Asp Pro Met  
 239 245 250 255  
 242 Lys Arg Ala Ser Ile Lys Asp Ile Arg Glu His Glu Trp Phe Lys Gln  
 243 260 265 270  
 246 Asp Leu Pro Lys Tyr Leu Phe Pro Glu Asp Pro Ser Tyr Ser Ser Thr  
 247 275 280 285  
 250 Met Ile Asp Asp Glu Ala Leu Lys Glu Val Cys Glu Lys Phe Glu Cys  
 251 290 295 300  
 254 Ser Glu Glu Glu Val Leu Ser Cys Leu Tyr Asn Arg Asn His Gln Asp  
 255 305 310 315 320  
 258 Pro Leu Ala Val Ala Tyr His Leu Ile Ile Asp Asn Arg Arg Ile Met  
 259 325 330 335  
 262 Asn Glu Ala Lys Asp Phe Tyr Leu Ala Thr Ser Pro Pro Asp Ser Phe  
 263 340 345 350  
 266 Leu Asp Asp His His Leu Thr Arg Pro His Pro Glu Arg Val Pro Phe  
 267 355 360 365

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Input Set : A:\002.00270 Sequence Listing.txt  
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270 Leu Val Ala Glu Thr Pro Arg Ala Arg His Thr Leu Asp Glu Leu Asn  
271 370 375 380  
274 Pro Gln Lys Ser Lys His Gln Gly Val Arg Lys Ala Lys Trp His Leu  
275 385 390 395 400  
278 Gly Ile Arg Ser Gln Ser Arg Pro Asn Asp Ile Met Ala Glu Val Cys  
279 405 410 415  
282 Arg Ala Ile Lys Gln Leu Asp Tyr Glu Trp Lys Val Val Asn Pro Tyr  
283 420 425 430  
286 Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr Tyr Ser Lys  
287 435 440 445  
290 Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr Leu Leu Asp  
291 450 455 460  
294 Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser Gly Thr Ala  
295 465 470 475 480  
298 Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser Cys Gln Arg  
299 485 490 495  
302 Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu Val Ser Leu  
303 500 505 510  
306 Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp Leu Thr Pro  
307 515 520 525  
310 Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys Ala Asn Leu  
311 530 535 540  
314 Ile Lys Ile Leu Ala Gln  
315 545 550  
318 <210> SEQ ID NO: 3  
319 <211> LENGTH: 550  
320 <212> TYPE: PRT  
321 <213> ORGANISM: Homo sapiens  
323 <400> SEQUENCE: 3  
325 Met Ala Thr Ala Glu Lys Gln Lys His Asp Gly Arg Val Lys Ile Gly  
326 1 5 10 15  
329 His Tyr Ile Leu Gly Asp Thr Leu Gly Val Gly Thr Phe Gly Lys Val  
330 20 25 30  
333 Lys Val Gly Lys His Glu Leu Thr Gly His Lys Val Ala Val Lys Ile  
334 35 40 45  
337 Leu Asn Arg Gln Lys Ile Arg Ser Leu Asp Val Val Gly Lys Ile Arg  
338 50 55 60  
341 Arg Glu Ile Gln Asn Leu Lys Leu Phe Arg His Pro His Ile Ile Lys  
342 65 70 75 80  
345 Leu Tyr Gln Val Ile Ser Thr Pro Ser Asp Ile Phe Met Val Met Glu  
346 85 90 95  
349 Tyr Val Ser Gly Gly Glu Leu Phe Asp Tyr Ile Cys Lys Asn Gly Arg  
350 100 105 110  
353 Leu Asp Glu Lys Glu Ser Arg Arg Leu Phe Gln Gln Ile Leu Ser Gly  
354 115 120 125  
357 Val Asp Tyr Cys His Arg His Met Val Val His Arg Asp Leu Lys Pro  
358 130 135 140  
361 Glu Asn Val Leu Leu Asp Ala His Met Asn Ala Lys Ile Ala Asp Phe  
362 145 150 155 160

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Input Set : A:\002.00270 Sequence Listing.txt

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365 Gly Leu Ser Asn Met Met Ser Asp Gly Glu Phe Leu Arg Thr Ser Cys  
 366 165 170 175  
 369 Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Arg Leu Tyr  
 370 180 185 190  
 373 Ala Gly Pro Glu Val Asp Ile Trp Ser Ser Gly Val Ile Leu Tyr Ala  
 374 195 200 205  
 377 Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp Asp His Val Pro Thr Leu  
 378 210 215 220  
 381 Phe Lys Lys Ile Cys Asp Gly Ile Phe Tyr Thr Pro Gln Tyr Leu Asn  
 382 225 230 235 240  
 385 Pro Ser Val Ile Ser Leu Leu Lys His Met Leu Gln Val Asp Pro Met  
 386 245 250 255  
 389 Lys Arg Ala Ser Ile Lys Asp Ile Arg Glu His Glu Trp Phe Lys Gln  
 390 260 265 270  
 393 Asp Leu Pro Lys Tyr Leu Phe Pro Glu Asp Pro Ser Tyr Ser Ser Thr  
 394 275 280 285  
 397 Met Ile Asp Asp Glu Ala Leu Lys Glu Val Cys Glu Lys Phe Glu Cys  
 398 290 295 300  
 401 Ser Glu Glu Glu Val Leu Ser Cys Leu Tyr Asn Arg Asn His Gln Asp  
 402 305 310 315 320  
 405 Pro Leu Ala Val Ala Tyr His Leu Ile Ile Asp Asn Arg Arg Ile Met  
 406 325 330 335  
 409 Asn Glu Ala Lys Asp Phe Tyr Leu Ala Thr Ser Pro Pro Asp Ser Phe  
 410 340 345 350  
 413 Leu Asp Asp His His Leu Thr Arg Pro His Pro Glu Arg Val Pro Phe  
 414 355 360 365  
 417 Leu Val Ala Glu Thr Pro Arg Ala Arg His Thr Leu Asp Glu Leu Asn  
 418 370 375 380  
 421 Pro Gln Lys Ser Lys His Gln Gly Val Arg Lys Ala Lys Trp His Leu  
 422 385 390 395 400  
 425 Gly Ile Arg Ser Gln Ser Arg Pro Asn Asp Ile Met Ala Glu Val Cys  
 426 405 410 415  
 429 Arg Ala Ile Lys Gln Leu Asp Tyr Glu Trp Lys Val Val Asn Pro Tyr  
 430 420 425 430  
 433 Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr Tyr Ser Lys  
 434 435 440 445  
 437 Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr Leu Leu Asp  
 438 450 455 460  
 441 Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser Gly Thr Ala  
 442 465 470 475 480  
 445 Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser Cys Gln Arg  
 446 485 490 495  
 449 Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu Val Ser Leu  
 450 500 505 510  
 453 Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp Leu Thr Pro  
 454 515 520 525  
 457 Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys Ala Asn Leu  
 458 530 535 540  
 461 Ile Lys Ile Leu Ala Gln

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 01/24/2006  
PATENT APPLICATION: US/10/565,058                    TIME: 11:00:31

Input Set : A:\002.00270 Sequence Listing.txt  
Output Set: N:\CRF4\01052006\J565058.raw

valid <213> Response:

s of "Artificial" only as "<213> Organism" response is incomplete,  
c 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

g#:16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,51,52  
g#:53,54,55,62,78,97,98,99,100,101,102,103,104,105,106,107,108,157

**VERIFICATION SUMMARY** DATE: 01/24/2006  
PATENT APPLICATION: US/10/565,058 TIME: 11:00:31

Input Set : A:\002.00270 Sequence Listing.txt  
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l1 M:270 C: Current Application Number differs, Replaced Current Application No  
l1 M:271 C: Current Filing Date differs, Replaced Current Filing Date